

# Vehicular Lighting Equipment Manufacturing: 2002

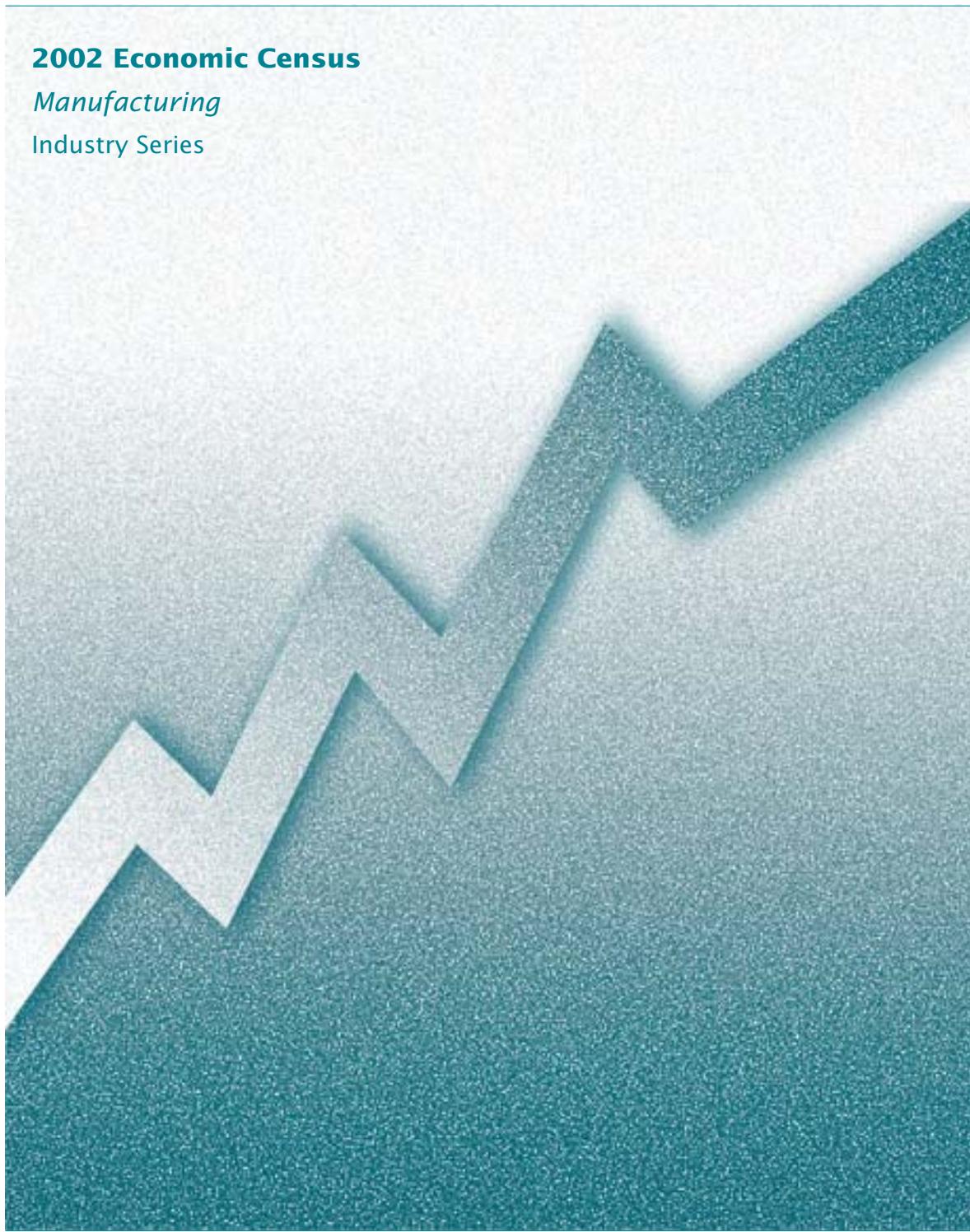
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## 2002 Economic Census

*Manufacturing*

Industry Series



U.S. CENSUS BUREAU

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U.S. Department of Commerce  
Economics and Statistics Administration  
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-- Not applicable for this report.

**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
336321, Vehicular lighting equipment manufacturing .....											
2002..	88	95	15 169	662 931	11 611	22 341	455 012	1 593 006	1 447 847	3 028 010	108 997
2001..	N	N	14 665	640 350	10 913	21 079	413 094	1 354 040	1 390 238	2 779 756	76 467
2000..	N	N	15 055	646 218	11 135	22 467	422 033	1 549 051	1 433 008	2 991 940	83 351
1999..	N	N	17 233	681 882	12 954	26 671	471 551	1 709 582	1 557 389	3 312 655	93 612
1998..	N	N	15 660	603 249	12 109	24 232	430 755	1 494 845	1 641 398	3 137 546	117 262
1997..	99	107	16 624	631 881	12 990	26 628	445 699	1 612 341	1 714 351	3 336 152	169 380

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)			
336321, Vehicular lighting equipment manufacturing											
United States.....	-	95	53	15 169	662 931	11 611	22 341	455 012	1 593 006	1 447 847	3 028 010
California .....	2	11	3	186	7 418	146	273	4 542	14 716	9 905	24 022
Indiana .....	-	11	7	4 056	183 550	2 977	5 562	128 379	360 150	238 049	591 862
Michigan.....	-	9	7	1 167	47 287	1 001	1 758	28 844	128 595	142 023	269 650
Missouri .....	-	3	3	832	25 374	552	946	8 728	74 095	65 685	140 959

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
336321, Vehicular lighting equipment manufacturing	
Companies <sup>1</sup> .....	number.. 88
All establishments <sup>2</sup> .....	number.. 95
Establishments with 1 to 19 employees .....	number.. 42
Establishments with 20 to 99 employees .....	number.. 26
Establishments with 100 employees or more .....	number.. 27
All employees <sup>3</sup> .....	number.. 15 169
Total compensation .....	\$1,000.. 850 460
Annual payroll .....	\$1,000.. 662 931
Total fringe benefits .....	\$1,000.. 187 529
Production workers, average for year .....	number.. 11 611
Production workers on March 12 .....	number.. 11 333
Production workers on May 12 .....	number.. 11 518
Production workers on August 12 .....	number.. 11 683
Production workers on November 12 .....	number.. 11 900
Production worker hours .....	1,000.. 22 341
Production worker wages .....	\$1,000.. 455 012
Total cost of materials .....	\$1,000.. 1 447 847
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 1 323 818
Resales .....	\$1,000.. 69 753
Purchased fuels .....	\$1,000.. 6 633
Purchased electricity .....	\$1,000.. 28 383
Contract work .....	\$1,000.. 19 260
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 565 112
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 288
Total value of shipments .....	\$1,000.. 3 028 010
Primary products value of shipments .....	\$1,000.. 2 407 922
Secondary products value of shipments .....	\$1,000.. 521 407
Total miscellaneous receipts .....	\$1,000.. 98 681
Value of resales .....	\$1,000.. 76 861
Contract receipts .....	\$1,000.. D
Other miscellaneous receipts .....	\$1,000.. D
Primary products specialization ratio .....	percent.. 82
Value of primary products shipments made in all industries .....	\$1,000.. 2 423 826
Value of primary products shipments made in this industry .....	\$1,000.. 2 407 922
Value of primary products shipments made in other industries .....	\$1,000.. 15 904
Coverage ratio .....	percent.. 99
Value added .....	\$1,000.. 1 593 006
Total inventories, beginning of year .....	\$1,000.. 233 504
Finished goods inventories .....	\$1,000.. 44 681
Work-in-process inventories .....	\$1,000.. 43 040
Materials and supplies inventories .....	\$1,000.. 145 783
Total inventories, end of year .....	\$1,000.. 243 420
Finished goods inventories .....	\$1,000.. 55 740
Work-in-process inventories .....	\$1,000.. 44 824
Materials and supplies inventories .....	\$1,000.. 142 856
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. 1 144 077
Total capital expenditures (new and used) .....	\$1,000.. 108 997
Buildings and other structures (new and used) .....	\$1,000.. 10 148
Machinery and equipment (new and used) .....	\$1,000.. 98 849
Automobiles, trucks, etc., for highway use .....	\$1,000.. 1 971
Computers and peripheral data processing equipment .....	\$1,000.. 5 449
All other expenditures for machinery and equipment .....	\$1,000.. 91 429
Total retirements .....	\$1,000.. 40 390
Gross value of depreciable assets at end of year .....	\$1,000.. 1 212 684
Depreciation charges during year .....	\$1,000.. 78 415
Total rental payments .....	\$1,000.. 15 810
Buildings and other structures .....	\$1,000.. 8 174
Machinery and equipment .....	\$1,000.. 7 636
Total other expenses <sup>4</sup> .....	\$1,000.. 100 371
Response coverage ratio <sup>5</sup> .....	percent.. 84
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 21 336
Communications services <sup>4</sup> .....	\$1,000.. 1 433
Legal services <sup>4</sup> .....	\$1,000.. 1 586
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 663
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 1 853
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 690
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 2 329
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 4 885
Taxes and license fees <sup>4</sup> .....	\$1,000.. 7 176
All other expenses <sup>4</sup> .....	\$1,000.. 58 422

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All estab- lishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
336321, Vehicular lighting equipment manufacturing											
All establishments .....	-	95	15 169	662 931	11 611	22 341	455 012	1 593 006	1 447 847	3 028 010	108 997
Establishments with—											
1 to 4 employees .....	9	34	77	4 301	57	102	2 912	9 612	10 089	19 701	1 222
5 to 9 employees .....	5	4	27	1 276	19	30	822	2 652	2 870	5 522	721
10 to 19 employees .....	-	4	51	1 894	34	59	1 110	5 144	4 247	9 449	420
20 to 49 employees .....	-	13	457	17 533	329	632	8 436	43 290	36 415	77 865	6 439
50 to 99 employees .....	-	13	886	31 624	637	1 249	16 816	76 365	44 000	121 266	3 834
100 to 249 employees .....	-	10	1 331	42 540	985	1 980	26 839	150 433	76 770	227 937	14 926
250 to 499 employees .....	-	8	2 719	87 387	1 814	3 425	37 817	239 144	219 379	453 990	13 111
500 to 999 employees .....	-	5	3 723	156 366	3 087	5 232	116 849	388 029	427 316	808 468	51 481
1,000 to 2,499 employees .....	-	4	5 898	320 010	4 649	9 632	243 411	678 337	626 761	1 303 812	16 843
2,500 employees or more .....	-	-	-	-	-	-	-	-	-	-	-
Administrative records <sup>4</sup> .....	9	35	85	4 775	62	113	3 237	10 667	11 223	21 890	1 354

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
336321	Vehicular lighting equipment manufacturing .....	95	15 169	662 931	11 611	22 341	455 012	1 593 006	1 447 847	3 028 010	108 997
3363210	Vehicular lighting equipment .....	95	15 169	662 931	11 611	22 341	455 012	1 593 006	1 447 847	3 028 010	108 997

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6a. Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
336321	Vehicular lighting equipment manufacturing .....	2002.. 1997..	N N	X X	X X
3363210	Vehicular lighting equipment .....	2002.. 1997..	N N	X X	X X
33632101	Vehicular lighting equipment, electric (including parts and accessories) .....	2002.. 1997..	N N	X X	X X
3363210101	Automobile lighting equipment (excluding emergency lighting and headlights) .....	2002.. 1997..	46 N	X X	X X
3363210102	Truck lighting equipment (excluding emergency lighting and headlights) .....	2002.. 1997..	11 N	X X	X X
3363210103	Emergency vehicle lighting (autos and trucks) .....	2002.. 1997..	13 N	X X	X X
3363210104	Headlights (autos and trucks) .....	2002.. 1997..	10 N	X X	X X
3363210Y	Vehicular lighting equipment, nsk, total .....	2002.. 1997..	N N	X X	X X
3363210YWW	Vehicular lighting equipment, nsk, for nonadministrative-record establishments .....	2002.. 1997..	N N	X X	X X
3363210YWY	Vehicular lighting equipment, nsk, for administrative-record establishments .....	2002.. 1997..	N N	X X	X X

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p=10 to 19 percent estimated; q=20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
336321	Vehicular lighting equipment manufacturing		
00900001	Total materials .....	2002.. X 1997.. X	1 323 818 1 523 445
33531100	Specialty transformers and fluorescent ballasts .....	2002.. X 1997.. X	3 709 4 127
33593101	Current-carrying wiring devices .....	2002.. X 1997.. X	130 344 89 003
33511001	Electric lamp bulbs .....	2002.. X 1997.. X	111 006 96 831
32721101	Flat glass (plate, float, and sheet) .....	2002.. X 1997.. X	1 081 1 496
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....	2002.. X 1997.. X	224 161 287 587
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....	2002.. X 1997.. X	81 702 24 605
32610011	Fabricated plastics products (excluding gaskets) .....	2002.. X 1997.. X	121 025 138 778
331000A7	Insulated wire and cable (including magnet wire) .....	2002.. X 1997.. X	27 775 25 438
32221001	Paperboard containers, boxes, and corrugated paperboard .....	2002.. X 1997.. X	33 868 62 270
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....	2002.. X 1997.. X	52 917 50 374
33299903	Metal poles .....	2002.. X 1997.. X	D D
33200027	All other fabricated metal products (excluding forgings) .....	2002.. X 1997.. X	66 501 35 669
33151001	Iron and steel castings (rough and semifinished) .....	2002.. X 1997.. X	D D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....	2002.. X 1997.. X	2 676 4 830
33152003	Other nonferrous metalcastings, rough and semifinished (excluding aluminum and aluminum-base alloy) .....	2002.. X 1997.. X	D D
33120016	Steel sheet and strip (including tinplate) .....	2002.. X 1997.. X	2 078 N
33120025	Steel wire and wire products .....	2002.. X 1997.. X	727 D
33120097	All other steel mill shapes and forms (excluding castings and forgings) .....	2002.. X 1997.. X	2 202 D
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....	2002.. X 1997.. X	4 255 N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.) .....	2002.. X 1997.. X	4 515 N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products) .....	2002.. X 1997.. X	2 287 D
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....	2002.. X 1997.. X	D 817
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....	2002.. X 1997.. X	D N
33512100	Lamp shades .....	2002.. X 1997.. X	D D
00970099	All other materials and components, parts, containers, and supplies .....	2002.. X 1997.. X	222 282 583 839
00971000	Materials, ingredients, containers, and supplies, nsk .....	2002.. X 1997.. X	163 890 66 844

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p=10 to 19 percent estimated; q=20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.